

NATURAL HISTORY

THE MAGAZINE OF THE
AMERICAN MUSEUM OF NATURAL HISTORY

VOLUME LIX

1950

TEN ISSUES A YEAR

Published by

THE AMERICAN MUSEUM OF NATURAL HISTORY
NEW YORK, N. Y.

CONTENTS OF VOLUME LIX

JANUARY, No. 1

Letters	1
Your New Books	4
The Maoris Were Our Hosts.....GRACE E. BARSTOW MURPHY	8
Back-yard Bird Sanctuary.....EDWIN D. NEFF	15
Monster of the Mist Forest.....KEN STOTT, JR.	20
Winter Through the Camera's Eye.....JOSEF MURMCH	24
Rafting Down the Fly River.....G. H. H. TATE	28
Curiosity Caught a Booby.....LEWIS WAYNE WALKER	34
Eskimo Glaze Their Sled Runners.....J. H. WEBSTER	36
Montezuma's Pink Castle.....NELL MURBARGER	38
A May Fly Sheds Its Skin.....JANICE HINTZ	43
Whistling Wings.....WALKER VAN RIFER and ROBERT J. NIEDERACH	44

FEBRUARY, No. 2

Letters	49
Your New Books	52
Those Barotse!.....MARGARET HUBBARD	56
How Dead Is The Moon?.....PAUL M. SEARS	62
Bird Photography.....ALLAN CRUICKSHANK	66
Mme. Eskimo Proves Herself an Artist.....MARGARET LANTIS	68
Canyon Utopia.....PHILIP FERRY	72
Snail Invaders.....R. TUCKER ABBOTT	80
The Kiwi—New Zealand's Flightless Oddity.....VION and BERNARD SCHRAM	86

MARCH, No. 3

Letters	97
Your New Books	100
Mission: Malaria.....HARRY HOOGSTRAAL	104
Stone Trees of the Redwood Empire.....DOLORES BUTTERFIELD JEFFORDS	112
Sea Parrots.....KARL W. KENYON	114
Tar-Trap Treasure.....BLACKMER HUMPHREY	120
How a Rattlesnake Strikes.....WALKER VAN RIFER	128
How Dangerous Are Animals?.....GEORGE G. GOODWIN	130
"Big Schmidt"—Little Giant of Palomar.....ROBERT R. COLES	136
Fishing Under the Ice.....J. H. WEBSTER	140

APRIL, No. 4

Fifty Years of Progress.....F. TRUBBE DAVIDSON	145
The Gifts of Nature.....HERBERT HOOVER	146
The Next Half Century in Science.....EDWARD M. WEYER, JR.	148
It's for You to Choose.....JOHN KIERAN	152
The Man Who Reads It.....LORUS J. and MARGERY J. MILNE	154
Camouflage in Nature.....KEN STOTT, JR.	156
Highboys.....N. J. BERRILL	164
The Crucifix Fish.....EDWIN WAY TEALE	168
The Bird that Baffled a Continent.....WOODY WILLIAMS	172
Snappers—Underwater Fishermen.....HUGH SPENCER	178
Little Mike.....RICHARD H. POUGH	180
Conservation Victories.....WILLIAM M. HARLOW	183
Woodland Wonders.....	184
Your New Books.....	186
Letters.....	191

MAY, No. 5

Letters	193
Your New Books	196
Golden Fleece of the Andes.....WALTER HENRICKS HOBGE	200
Clown Fish.....WOODY WILLIAMS	208
Animals of the Avalanche.....TOM McHUGH	210
The Griffon Vulture.....JAMES P. CHAPIN	215
The First Ascent of El Sangay (Part I).....ROBERT THOMAS MOORE	216
Hoax or Fair Warning.....LORUS J. and MARGERY J. MILNE	222
The Great White Sands.....NELL MURBARGER	228
More Sea Otters.....	236
A Shaggy Tree.....DOROTHY FREAS	238

JUNE, No. 6

Letters	241
Your New Books	244
Exploring the "Desert of Death".....WALTER A. FAIRSERVIE, JR.	246
Cherished Wilderness.....FLORENCE PAGE JAKUBS and FRANCIS LEE JAKUBS	254
An Electrical "Bath" in Yellowstone.....WILLIAM B. SANBORN	258
Carpet Beetles.....C. H. CURRAN	260
The Rainbow Land of Glen Canyon.....JOYCE ROCKWOOD and JOSEF MURMCH	264
The First Ascent of El Sangay (Part II).....ROBERT THOMAS MOORE	272
The Kettledrum Choir of June.....BEN EAST	278
"The King".....	283
An Unpublished Audubon.....HAZEL M. HUNTER	285
Jumping Fishes.....BUCKY McDONNELL	286

SEPTEMBER, No. 7

Letters	289
Your New Books	291
"Tree of the Sorrowful Night".....PHILIP FERRY	296
Longless Salamanders.....ROMEO MANSUKETI	300
Early "Missing Links" from Africa.....DAN LINCOLN THURSP	304
Debut of a Damsel Fly.....WALKER VAN RIFER	310
Basutoland.....CONSTANCE STUART	312
Nevada's Valley of Geysers.....NELL MURBARGER	320
The Roseate Spoonbill.....HUGO H. SCHROEDER	325
Hitchhiker of the Sea.....N. J. BERRILL	328
Can Music Charm Snakes?.....BUCKY McDONNELL	330
At the End of a Hurricane.....HARRISON M. REED, JR.	335

OCTOBER, No. 8

Letters	337
Your New Books	341
Is American Indian Culture Asiatic?.....GORDON F. EKHOLM	344
Possum of the High Ranges.....DAVID FLEAY	352
Beasts Before the Bar.....FRANK A. BRACH	356
The Signs Columbus Followed.....N. J. BERRILL	360
Dixie in Reverse.....QUENTIN KEYNES	366
Saga of the Sage.....CHARLES W. SCHWARTZ	369
The Lady Lives on Blood.....MARSTON BATES	374
An Invisible Deathtrap.....MILDRED J. ERICSON	380
Sequoias Colonize Britain.....JOHN D. U. WARD	383

NOVEMBER, No. 9

The Turkey—a Bird with a Baffling Name.....JOHN T. ZIMMER	385
Letters	386
Your New Books	388
The Largest Whale Ever Weighed.....WALDON C. WINSTON	392
Tiger of the Grass Roots.....TOM McHUGH	400
Egrets the Hard Way.....RUSSELL BARNETT AITKEN	402
A Fair Day's Pay.....GEOFFREY M. TATE	408
Born Alive.....N. J. BERRILL	414
Death Masks in Lava.....DOLORES BUTTERFIELD JEFFORDS	420
The True Mountaineer.....LOIS CRISLER	422
Nature's Record Fasters.....FRANK W. LANE	492

DECEMBER, No. 10

Letters	433
Your New Books	436
The Descent into the Barranca del Cobre (Part I).....ROBERT THOMAS MOORE	440
A Cecropia Moth Emerges.....LYNWOOD M. CHACE	446
Your Unknown Friend—The Sardine.....LORUS J. and MARGERY J. MILNE	450
The Naked Hills.....ROBERT M. ORMES	453
Winter Through the Camera's Eye.....RAY ATKESON	456
How Bats Fly.....RICHARD L. CASSELL	460
An Orchid of the Chaparral.....JERRY LAUDERMILK	464
The Mystery of the Twisted Trees.....PAUL M. SEARS	468
Nature Crossword Puzzle.....ALFRED I. TOOME	473
The Lubber Locust.....HARRISON M. REED, JR.	475

INDEX TO VOLUME LIX

TITLES, SUBJECTS, AND AUTHORS

(Titles of articles are in capital letters)

A

- Abbott, R. Tucker, SNAIL INVADERS, 80.
Aguilar, Alonso, Jr., PINGUIN (Feb. Cover Design).
Aitken, Russell Barnett, EGGETS THE HARD WAY, 402.
American Indian Culture, is it Asiatic?, 344, 434.
Animals, how dangerous are?, 130; trials, 352.
ANIMALS OF THE AVALANCHE, Tom McHugh, 210.
Anthony, Harold E., RAPID PROGRESS or RAPID DEFEAT, 148.
Atkeson, Ray, WINTER THROUGH THE CAMERA'S EYE (photo series), 456.
AT THE END OF A HURRICANE, Harrison M. Reed, Jr., 335.
Atwater, Gordon, Brotherhood through Science, Art, and Music, 151.
Audubon, an unpublished print, 285.
Australopithecus africanus, 308.

B

- BACK-YARD BIRD SANCTUARY, Edwin D. Neff, 15.
Baroque tribe, 56.
Barraza del Cobre, descent into, 440.
BASUTOLAND, Constance Stuart, 312.
Bates, Maydon, THE LADY LIVES ON BLOOD, 374.
Bats, how they fly, 460.
Beach, Frank A., BEASTS BEFORE THE BAR, 356.
BEASTS BEFORE THE BAR, Frank A. Beach, 356.
Bees, and Pilot whales, 2.
Beetle, Bumblebee Flower, 226; Carpet, 261; longicorn, 227.
Berrill, N. J., BORN ALIVE, 414; THE CRUCIFIX FISH, 168; HITCHHIKERS OF THE SEA, 328; THE STORM COCKLE FOLLOWED, 360.
"BIG SCHMIDT"—LITTLE GIANT OF PALOMAR, Robert R. Coles, 136.
BIRD PHOTOGRAPHY (photo series), Allan Cruickshank, 66.
Bird sanctuary, 15.
Birds, dwarf, 338.
BIRD THAT RAFFLED A CONTINENT, THE, Edwin Way Teale, 172.
Birth, 414.
Bobolink, 241.
Bobuck, 352.
Booby, 34.

BOOK REVIEWS:

- Abbe David's Diary*, 52.
Adventures of Marco Polo, The, 342.
Allen Latham's Bee Book, 101.
American Heartwood, 145.
American Indian Sculpture, 52.
American Wild Flowers, 199.
America Through British Eyes, 54.
Audubon's American Birds, 96.
Audubon's Birds of America, 189.
Aud-Birds, The, 7.
Bird Photographers in India, A, 294.
Birds of Greenland, The, 391.
Birds of Rocky Mountain National Park, The, 432.
Brazilian Culture, 293.
British Waters and Their Haunts, 438.
Caste, Class and Race, 343.
Coast of Northeast Greenland, The, 54.
Coming of the Maori, The, 293.
Congo Eden, 196.
Death of a Science in Russia, 186.
Early Man in the New World, 295.
Evolution of Scientific Thought from Newton to Einstein, 388.
Fishes of the Western North Atlantic, vol. I, 437.
Fishing the Atlantic, 342.
Fishponds and Aquariums, 294.
Flight from Reality, 245.
Frederick Catherwood Archt., 188.
From Cave Painting to Comic Strip, 4.
Game Fish of the World, 102.
Handbook of Attracting Birds, 439.
History of Horticulture in America to 1860, A, 196.
History of Nature, The, 103.
Hopi Kachina Dolls, 100.
Illustrated Key to Lizards, Snakes, and Turtles of the West, 101.
I Married a Dinosaur, 100.
Indians of the Southwest, The, 7.
Introducing the Insect, 295.
Introduction to Birds, An, 186.
Invasion of New Zealand by People, Plants, and Animals: The South Island, 190.
Kon Tiki, 437.
Land of Ours, This, 334.
Last Chance in Africa, 341.
Life of Audubon, The, 103.
Maine Woods, The, 196.
Male and Female, 4.
Man in the Primitive World, 55.
Menaboni's Birds, 439.
Native Arts of the Pacific Northwest, 288.
Natural History of Trees, A, 432.

- Naturalist in the Gran Chaco*, A, 388.
Natural Regions of the U.S.S.R., 244.
Nature Crafts, 198.
Nature of Natural History, The, 199.
New Theory of Human Evolution, A, 96.
New Worlds Emerging, 100.
North American Fresh Water Sport Fish, 102.
North Carolina Naturalist—H. H. Brimley, A, 52.
Of Men and Mountains, 245.
Out of My Later Years, 293.
Out of the Earth, 244.
Plant Disease Handbook, 294.
Popol Vuh The Sacred Book of the Ancient Quiché Maya, 295.
Prehistoric Southwesterners from Basket-maker to Pueblo, 186.
Phasian Bird, 439.
Principles of Genetics, 437.
Quail, The, 101.
Reasonable Life, The, 342.
Rio Grande: River of Destiny, The, 245.
Roman Book on Precious Stones, A, 343.
Saga of the Waterfowl, The, 101.
Sandhill Cranes, The, 403.
Science Is a Sacred Cow, 341.
Short History of Science and Scientific Thought, 101.
16 MM Sound Motion Pictures, 7.
Story of Maps, The, 54.
Sun in the Sky, 244.
Three Worlds of Peru, 6.
Time and Its Mystery, Series III, 438.
Traveler's Guide to Roadside Wild Flowers, Shrubs and Trees of the U.S.A., 103.
Tropical Aquariums, 7.
Way to Game Abundance, The, 343.
Yankee's Wander World, 293.
BORN ALIVE, N. J. Berrill, 414.
Breed, Jack, Hopi Kachina Doll (Mar. Cover Design).
Broom, Robert, 304.
Butterfly, Leaf, 222; Monarch, 193, 239; rare, 240; Viceroy, 239; Zebra, 226.

C

- CAMOUFLAGE IN NATURE, Lotus J. and Margery J. Milne, 156.
CAN MUSIC CHARM SNAKES?, Buckey McDonnell, 130.
CANYON UTOPIA, Philip Ferry, 72.
CARPET BEETLES, C. H. Curran, 260.
Cassell, Richard L., HOW BATS FLY, 460.
Cat, does it come home?, 50.
Caterpillar, 224.
Catfish, Sea, 168.
CECROPIA MOTH EMERGES, A, LYTHWOOD M. CHACE, 446.
CHACE, LYTHWOOD M., A CECROPIA MOTH EMERGES, 446.
Chapin, James P., THE GRIFTON VULTURE, 215.
CHERISHED WILDERNESS, Florence Page Jaques and Francis Lee Jaques, 254.
CLOWN FISH, Woolly Williams, 208.
COLES, ROBERT R., "BIG SCHMIDT"—LITTLE GIANT OF PALOMAR, 136.
Columbus, signs he followed, 352.
CONSERVATION VICTORIES, Richard H. Pough, 183.
Crabs, Ghost, 226.
Crickets, and damage to clothes, 144.
Crisler, Louis, THE TRUCK MOUNTAINEER, 422.
Crossword puzzle, 473.
CRUCIFIX FISH, THE, N. J. Berrill, 168.
Cruickshank, Allan, BIRD PHOTOGRAPHY (photo series), 66.
CURIOSITY CAUGHT A BOOBY, Lewis Wayne Walker, 34.
CURRAN, C. H., CARPET BEETLES, 266.
Cypress, Montezuma, 251.

D

- Damsel Fly, 310.
Dart, Raymond A., 304.
DAVISON, F. TRUBEE, FIFTY YEARS OF PROGRESS, 145.
Daylight, length of, 49.
DEATH MASKS IN LAVA, Dolores Butterfield Jeffords, 420.
DEBUT OF A DAMSEL FLY, Walker Van Riper, 310.
DESCENT INTO THE BARBARA DEL COBRE, THE (Part I), Robert Thomas Moore, 440.
"Desert of Death," exploring the, 246.
DIXIE IN REVERSE, Quentin Keynes, 366.

E

- EARLY "MISSING LINKS" FROM AFRICA, Dan Lincoln Thrapp, 304.
Earthquake, North America's most violent, 49.

- East, Ben, THE KETTLEDUM CHOIR OF JUNE, 278.
EGGS, fertility of wild birds, 434.
EGGETS THE HARD WAY, Russell Barnett Aitken, 402.
Ekholm, Gordon F., IS AMERICAN INDIAN CULTURE ASIATIC?, 344.
ELECTRICAL "BATH" IN YELLOWSTONE, AN, William B. Sanborn, 258.
Electricity, static, in Yellowstone, 258.
Elephant, and rhino, 97.
Elephant Shrew, 104.
Elk, bull, 242.
El Rey, 283.
El Sangay, first ascent of, 216, 272.
Engelhard, Georgia, Fall Scene (Nov. Cover Design).
Ericson, Mildred J., AN INVISIBLE DEATHTRAP, 380.
Eskimo, and ice fishing, 140; women in art, 68.
ESKIMOS GLAZE THEIR SLID RUNNERS (photo series), J. H. Webster, 36.
Evolution, cultural, 152.
EXPLORING THE "DESERT OF DEATH," Walter A. Fairervis, Jr., 246.

F

- FAIR DAY'S PAY, A, Geoffrey M. Tate, 408.
Fairervis, Walter A., Jr., EXPLORING THE "DESERT OF DEATH," 246.
Fall Scene (Nov. Cover Design), Georgia Engelhard.
Family Tree of Man (a chart), 307.
Fasters, nature's record, 429.
Ferry, Philip, CANYON UTOPIA, 72; "TREE OF THE SORROWFUL NIGHT," 296.
FIFTY YEARS OF PROGRESS, F. Trubee Davison, 145.
FIRST ASCENT OF EL SANGAY, THE, Robert Thomas Moore, Part I, 216; Part II, 272.
Fish, blind, 2; clown, 208; jumping, 286; Leaf, 227; stolen from fisherman by owl, 386.
Fishing, jumping, 286; with lights, 337, 476; varnished board, 338.
FISHING UNDER THE ICE (photo series), J. H. Webster, 140.
Fleay, David, POSSUM OF THE HIGH RANGES, 352.
Fly, Damsel, 310; Drone, 226; Lantern, 225.
Fly River, New Guinea, 28.
Frees, Dorothy, A SHAGGY TREE, 238.
Frogs, rain of, 98.
Fusang, 434.

G

- Geese, Canada, 16; in trees, 386.
Geyers, Nevada, 320.
Giraffe, 164.
GOLDEN FLEECE OF THE ANDES, Walter Henricks Hodge, 200.
Goodwin, George G., HOW DANGEROUS ARE ANIMALS?, 130.
Grasshopper, 223.
GREAT WHITE SANDS, THE, Nell Murharger, 228.
Green-clouded Swallowtail (May Cover Design), Chris Olsen.
GRIFTON VULTURE, THE, James P. Chapin, 215.
Grouse, Sage, 369.

H

- Harlow, William M., WOODLAND WONDERS, 184.
Hawk, and balance in nature, 192.
Hickory, Shagbark, 238.
HIGHBOYS, Ken Stott, Jr., 164.
Hintz, Janice, A MAY FLY SHEDS ITS SKIN (photo series), 43.
HITCHHIKERS OF THE SEA, N. J. Berrill, 328.
HOAX OR FAIR WARNING, LOTUS J. and MARGERY J. MILNE, 222.
Hodge, Walter Henricks, GOLDEN FLEECE OF THE ANDES, 200.
HOOGSTRAAL, HARRY, MISSION: MALABAR, 104.
Hopi Kachina Doll (Mar. Cover Design), Jack Breed.
HOW A RATTLESNAKE STRIKES, Walker Van Riper, 128.
HOW BATS FLY, Richard L. Cassell, 460.
HOW DANGEROUS ARE ANIMALS?, George G. Goodwin, 130.
HOW DEAD IS THE MOON?, Paul M. Sears, 62.
Hubbard, Margaret, THOSE BAROTSEI, 56.
Hummingbird, Broad-tailed, 44.
Humphrey, Blackmer, TAR-TRAP TREASURES, 120.
Hunter, Hazel M., AN UNPUBLISHED AUDUBON, 285.
Hurricane, end of, 335.

INDEX TO VOLUME LIX

I
Ice fishing, 140
Indian Chief (June Cover Design), Jack Breed
Indian Culture, American, is it Asiatic?, 344, 434
INVINCIBLE DEATHTRAP, AN, Mildred J. Ericson, 380
IS AMERICAN INDIAN CULTURE ASIATIC?, Gordon F. Ekholm, 344
IT'S FOR YOU TO CHOOSE, Edward M. Weyer, Jr., 152

J
Jack pines, and Kirtland's Warbler, 172
Jaques, Florence Page and Francis Lee, CHERRYISHED WILDERNESS, 254
Jeffords, Dolores Butterfield, DEATH MASKS IN LAVA, 420; STONE TREES OF THE REDWOOD EMPIRE, 112
JUMPING FISHES, Bucky McDonnell, 286

K
Kabul, 280
Kenyon, Karl W., SEA PARROTS, 114
KETTLEDROM CHOIR OF JUNE, THE, Ben East, 283
Keynes, Quentin, DIXIE IN REVERSE, 366
Kingfisher, Belted, 144
"King, The," 283
Kirtland's Warbler, 172
KIWI—NEW ZEALAND'S FLIGHTLESS ODDITY, THE, Vion and Bernard Schram, 86

L
La Brea, 120
LADY LIVES ON BLOOD, THE, Marston Bates, 374
Lane, Frank W., NATURE'S RECORD FASTERS, 492
Lantis, Margaret, MME. ESKIMO PROVES HERSELF AN ARTIST, 68
LARGEST WHALE EVER WEIGHED, THE, Waldon C. Winston, 392
Laudermilk, Jerry, AN ORCHID OF THE CHAPARRAL, 464
Lava Cast Forest, 420
LITTLE MIKE, Hugh Spencer, 180
Locust, Lubber, 475
LUBBER LOCUST, Harrison M. Reed, Jr., 475
LUNGLESS SALAMANDERS, Romeo Mansueti, 300

M
Malaria, 104
Man, ancient (Central Asia), 246; family tree of (a chart), 307
MAN WHO READS IT, THE, John Kieran, 154
Mansueti, Romeo, LUNGLESS SALAMANDERS, 300
Mantis, Praying, 223
MAORIS WERE OUR HOSTS, THE, Grace E. Barstow Murphy, 8
MARTINOT, 214, 422
MAY FLY SHEDS ITS SKIN, A (photo series), Janice Hintz, 43
McDonnell, Bucky, CAN MUSIC CHARM SNAKES?, 330; JUMPING FISHES, 286
McHugh, Tom, ANIMALS OF THE AVALANCHE, 210; TIGER OF THE GRASS ROOTS, 400
Mead, Margaret, Change and Growth Through Understanding, 150
Medal, Conservation, to Herbert Hoover (illustr.), 192
Milne, Lorus J. and Margery J., CAMOUFLAGE IN NATURE, 156; HOAX OR FAIR WARNING, 222; YOUR UNKNOWN FRIEND—THE SARDINE, 450
Missing links, early, from Africa, 304
MISSION: MALARIA, HARRY HOOGSTRAAL, 104
Mitten Butte (Apr. Cover Design), Josef Muench
MME. ESKIMO PROVES HERSELF AN ARTIST, Margaret Lantis, 68
Mole, 1
Mongoose and the cobra, 289
MONSTER OF THE MIST FORESTS, Ken Stott, Jr., 20
MONTEZUMA'S PINK CASTLE, Nell Murbarger, 38
Moon, and life on it, 62
MOORE, Robert Thomas, THE DESCENT INTO THE BARRANCA DEL COBRE, Part I, 440; THE FIRST ASCENT OF EL SANGAY, Part I, 216; Part II, 272
MORE SEA OTTERS, 236
Mosquito, 374
Moth, Bumblebee Hawk, 227; rare, 240
Muench, Josef, Mitten Butte (Apr. Cover Design); WINTER THROUGH THE CAMERA'S EYE (photo series), 24
Muench, Joyce Rockwood and Josef, THE RAINBOW LAND OF GLEN CANYON, 264
Murbarger, Nell, THE GREAT WHITE SANDS, 128; MONTEZUMA'S PINK CASTLE, 38; NEVADA'S VALLEY OF GEYSERS, 320
Murphy, Grace E. Barstow, THE MAORIS WERE OUR HOSTS, 8
MYSTERY OF TWISTED TREES, THE, Paul M. Sears, 468
Myxomycetes, 180

N
NAKED HILLS, THE, Robert M. Ormes, 453
NATURE CROSSWORD PUZZLE, Alfred I. Tooker, 473
NATURE, gifts of, 146
NATURE'S RECORD FASTERS, Frank W. Lane, 492
Neff, Edwin D., BACK-YARD BIRD SANCTUARY, 15
NEVADA'S VALLEY OF GEYSERS, Nell Murbarger, 320
NEXT HALF CENTURY IN SCIENCE, 148
Nichols, Tad, Torch Ginger Flower (Dec. Cover Design)
Niedrach, Robert J. and Walker Van Riper, WHISTLING WINGS, 44
Nuthatches, suet-storing, 290

O
Olsen, Chris, Green-clouded Swallowtail (May Cover Design)
ORCHID OF THE CHAPARRAL, AN, Jerry Laudermilk, 464
OTOMAC, Robert M., THE NAKED HILLS, 453

P
Palma, 50
PARANTHROPUS ROBUSTUS Broom, 308
PAYING OFF RAVINES (Surumu River), 408
Peshawarun, 252
Pika, 211
Penguin (Feb. Cover Design), Alonso Aguilar, Jr.
PLESIANTHROPUS TRANSVAALENSIS (Broom), 308
Poison Pool, 380
POSSUM OF THE HIGH RANGES, David Fleay, 352
Pough, F. H., Empty Mines—Heavy Statute Books, 149; TARASCAN GIRL (Sept. Cover Design)
Pough, Richard H., CONSERVATION VICTORIES, 185; Dull Diet, Desperation, and a Population Plan, 149
Predictions, scientific, 148
PROTHONOTARY WARBLER, THE (Nov. Cover Design), W. Bryant Tyrell
Puffin, horned, 115; tufted, 115

Q
Quetico-Superior area, by canoe and snowshoe, 254; conservation, 183

R
RAFTING DOWN THE FLY RIVER, G. H. H. Tate, 28
RAINBOW LAND OF GLEN CANYON, THE, Joyce Rockwood Muench and Josef Muench, 264
Rats, wood, 213
Rattlesnake, how it strikes, 128
Redwoods, petrified, 112
Reed, Harrison M., Jr., AT THE END OF A HURRICANE, 335; LUBBER LOCUST, 475
Remora, 328
Rhino, and elephant, 97
Rhinos, African black, 20
Robin, on killing of young, 242; what is it?, 193
Rock, effect of time and weather, 434
ROSEATE SPOONBILL, THE, Hugo H. Schroder, 325
Russell, Charles, A New Partnership Between Science and Education, 151

S
SAGA OF THE SAGE, Charles W. Schwartz, 369
Salamanders, lungless, 300
Sanborn, William B., AN ELECTRICAL "BATH" IN YELLOWSTONE, 258
Sardines, 450
Schram, Vion and Bernard, THE KIWI—NEW ZEALAND'S FLIGHTLESS ODDITY, 86
Schroder, Hugo H., THE ROSEATE SPOONBILL, 325
Schwartz, Charles W., SAGA OF THE SAGE, 369
Sea Catfish, 168
Sea Moth, 241
Sea Otters, 236
SEA PARROTS, Karl W. Kenyon, 114
Sears, Paul M., HOW DEAD IS THE MOON?, 62; MYSTERY OF THE TWISTED TREES, 468
SEQUOIAS COLONIZE BRITAIN, John D. U. Ward, 383
Shagbark Hickory, 238
SHAGGY TAIL, A, Dorothy Freas, 218
Shapiro, Harry L., FEWER ATOMIC WORRIES—Graver Population Problems, 149
Shark, and the remora, 328
Shark-sucker, 328
Shrew, short-tailed, 400
SIGNS COLUMBUS FOLLOWED, THE, N. J. Berrill, 360

Simpson, G. G., New Comprehension, Power, Guidance, 148
SNAIL INVADERS, R. Tucker Abbott, 80
Snake River, and Teton Mountain Range, 183
Snakes, charming by music, 330; Harlequin, 227
SNAPPERS—UNDERWATER FISHERMEN, Woody Williams, 178
Sparrows, English, and a sense of time, 290
Spencer, Hugh, LITTLE MIKE, 180
Spoonbill, roseate, 325
Squirrel, gold-mantled ground, 213
STONE TREES OF THE REDWOOD EMPIRE, Dolores Butterfield Jeffords, 112
Stott, Ken, Jr., HIGHBOYS, 164; MONSTER OF THE MIST FORESTS, 20
Stuart, Constance, BABUTOLAND, 312
Sycamores, natural grafting, 49

T
TARASCAN GIRL (Sept. Cover Design), F. H. Pough
TAR-TRAP TREASURE, Blackmer Humphrey, 120
Tate, Geoffrey M., A FAIR DAY'S PAY, 408
Tate, G. H. H., RAFTING DOWN THE FLY RIVER, 28
Teale, Edwin Way, THE BIRD THAT BAFLED A CONTINENT, 172
THOSE BAROTSE!, Margaret Hubbard, 56
Thripp, Dan Lincoln, EARLY "MISSING LINKS" FROM AFRICA, 304
TIGER OF THE GRASS ROOTS, Tom McHugh, 400
Tooke, Alfred I., NATURE CROSSWORD PUZZLE, 473
Torch Ginger Flower (Dec. Cover Design), Tad Nichols
Tree Hoppers, 224
"TREE OF THE SORROWFUL NIGHT," Philip Ferry, 296
Trials, animal, 352
TRUE MOUNTAINEER, THE, Lois Crisler, 422
TURKEY—A BIRD WITH A BAFFLING NAME, THE, John T. Zimmer, 385
Turtles, and fear, 97; snapping, 178
Tyrell, W. Bryant, THE PROTHONOTARY WARBLER (Nov. Cover Design)

U
UNPUBLISHED AUDUBON, AN, Hazel M. Hunter, 285

V
Van Riper, Walker, DEBUT OF A DANDEL FLY, 310; HOW A RATTLESNAKE STRIKES, 128
Van Riper, Walker and Robert J. Niedrach, WHISTLING WINGS, 44
Vicula, 200
Vulture, Griffon, 215

W
Walker, Lewis Wayne, CURIOSITY CAUGHT A BOOBY, 34
Warbler, Kirtland's, 172; Prothonotary, 387
Ward, John D. U., SEQUOIAS COLONIZE BRITAIN, 383
Weasel, 193, 214
Webster, J. H., ESKIMOS GLAZE THEIR SLED RUNNERS (photo series), 36; FISHING UNDER THE ICE (photo series), 140
Weyer, Edward M., Jr., IT'S FOR YOU TO CHOOSE, 152
Whale, largest ever weighed, 393
Whirlwind Valley geyser, 321
WHISTLING WINGS, Walker Van Riper and Robert J. Niedrach, 44
White Mountain Snow Scene (Jan. Cover Design)
White Sands, Great, 228; map of, 229
Williams, Woody, CROWN FISH, 208; SNAPPERS—UNDERWATER FISHERMEN, 178
Winston, Waldon C., THE LARGEST WHALE EVER WEIGHED, 392
WINTER THROUGH THE CAMERA'S EYE (photo series), Ray Atkeson, 456; Josef Muench, 24
WOODLAND WONDERS, William M. Harlow, 184
Worm, Sea, 362

Y
YOUR UNKNOWN FRIEND—THE SARDINE, LORUS J. and Margery J. Milne, 450

Z
Zimmer, John T., THE TURKEY—A BIRD WITH A BAFFLING NAME, 385